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In the Claims

Claims 1-9, as submitted with the original patent application, were cancelled in an earlier paper.

Claims 10-29 were added in an earlier paper. The Examiner has rejected claims 10-29 under 35 USC 112, 102 and 103. Claims 10-29 are cancelled. New claims are drawn to the disclosure of the SUBSTITUTE SPECIFICATION in combination with the Figures 1 through 11. The claims are hereafter amended with amendments shown in the "Pre-OG Notice" format with deletions by strikeout and additions by underlining. There is no "clean" format shown.

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Marien 20, 2003 by Floyd Lylvey.

Application No. 09/041,685

1	10. (Cancelled)
2	11. (Cancelled)
3 4	12. (Cancelled)
5	13. (Cancelled)
6	14. (Cancelled)
7	15. (Cancelled)
8	16. (Cancelled)
9	17. (Cancelled)
LO	
12	18. (Cancelled)
13	19. (Cancelled)
L4	20. (Cancelled)
15	21. (Cancelled)
16	22. (Cancelled)
17	23. (Cancelled)
18 19	24. (Cancelled)
20	25. (Cancelled)
21	26. (Cancelled)
22	27. (Cancelled)
23	28. (Cancelled)
24	29. (Cancelled)
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on March 20, 2003 by Floyd E. Ivey.

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F.U.C.HenniWeiss, Cullimani Petition Revival PETITION, RESPONSE, DRAFT, 030320. Office Action, 112, 101, 102, wpd

1	
2	30. (New) A waste liquid treatment system comprising the following:
3	A. a media matrix (1) comprised of at least one inner core (70) received into at
5	least one tube (20);
6	B. the media matrix (1) received into a media matrix container (250) having
7 8	wastewater inlet (350) and discharge means (400).
9	
0	31. (New) A waste liquid treatment system of claim 30 further comprising;
ı	A. the media matrix (1) is comprised of a plurality of tubes (20) each sized to
2	receive at least one elongated inner core (70);
3   4	B. the at least one inner core (70) has a top (75), a bottom (80) and a length (85);
5	C. the tube (20) having a tube top (25), tube bottom (30) and tube length (35) and
6	a tube axis (37); the tube axis (37) centrally positioned from the tube top (25) to the tube
7	bottom (30) and extending throughout the tube length (35) of each tube (20):
8	D. the inner core (70) having at least one vane (90):
9	E. the at least one vane (90) extending from a central core element (95) where the
0	central core element (95) coincides with the tube axis (25).
2	
3	32. (New) A waste liquid treatment system of claim 31 further comprising:
4	
5	A. the inner core (70) having a plurality of vanes (90); the central core element
6	m :
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(95) of at least one inner core (70)	parallel with the central core element (95) of other at
least one inner core (70);	

B. the tube length (35) generally less than the inner core length (85).

## 33. (New) A waste liquid treatment system of claim 32 further comprising:

A. the tube (20) having an inner wall (140) where at least one groove (150) is formed in the inner wall (140); said at least one groove (150) sized to receive at least one vane (90);

B. the groove (150) comprising vane (90) restraining means securing the at least one inner core (70) in a fixed position within said tube (20):

C. the tube (20) having an outer wall (190) having at least one fin (200) extending outwardly therefrom.

34. (New) A waste liquid treatment system of claim 33 further comprising:

A. the tube (20) receiving at least one inner core (70) may be positioned at any location along the inner core length (85);

B. the at least one inner core (70) having at least eight vanes (90).

35. (New) A waste liquid treatment system of claim 34 further comprising:

A. of the at least one vane (70) received into the at least one depression or at least

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B. groove walls (155) extending from the inner wall (140) forming the at least one depression or at least one groove (150); said at least one groove (150) comprising a vane tip (98) restraining means.

36. (New) A waste liquid treatment system of claim 35 further comprising:

A. vane (90) restraining means by a friction fit between the vane tip (98) and groove walls (155) when received into the groove (150) or by application of an adhesive or a mechanical fixing means between the vane tip (98) and the groove walls (155);

B. at least two depressions or at least two grooves (150) are formed in the inner wall (140) with each of said grooves (150) receiving at least one vane (90).

37. (New) A waste liquid treatment system of claim 36 further comprising:

A, the at least one vane (90) having a vane surface (92):

B. the at least one vane (90) extending from the central core element (25) along the length of said central core element (25); the surface (92) covered with a biofilm (97);

C. the at least eight vanes (90) are spaced equidistant from the adjoining vane (90) and extend from the central core element (25).

38. (New) A waste liquid treatment system of claim 37 further comprising;

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	A. at least four fins (200) extending from said outer wall (190);
	B. the fin (200) is generally elongated having a fin surface (210):
	C. the plurality of tubes (20) contact adjacent tubes (20) at the respective tube
	outer walls (190) at at least one contact point (195) where affixing means fix adjacent
;	tubes together and hence to fix the position of the plurality of tubes (20) within the media
,	matrix (1).
3	
,	39. (New) A waste liquid treatment system of claim 37 further comprising:
L	A. contact point (195) affixing means including adhesives, mechanical fasteners
2	and other methods or devices:
3	B. at least fins 1n extending outwardly from the outer wall (190);
	C. at least one contact points (195) comprised of flattened portion of the outer
5	wall surface (195) extending from the tube top (25) to the tube bottom (30) parallel with
7	the tube axis (37).
3	
9	40. (New) A waste liquid treatment system of claim 39 further comprising:
ָ י	A. said tubes (20) in the media matrix (1) may be alternatively or additionally
2	fixed in position by fin (200) affixing means employed at an intersection of fins (200) of
3	
4	adjoining tubes (20).
5	
5	

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F: UPClient/Welss Cullinan/PetitionRevival/PETITION, RESPONSE DRAFT 030320, Office Action, 112, 101, 102, wpd